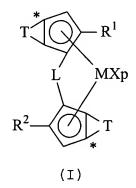


## ATTACHMENT A

Claims 1 - 22: (Cancelled)

- 23. (New) A multistage process comprising the following steps:
  - polymerizing a propylene resin optionally comprising one or more monomers selected from ethylene and alpha olefins of formula  $CH_2=CHT^1$ , wherein  $T^1$  is a  $C_2-C_{20}$  alkyl radical in presence of a catalyst system, the catalyst system supported on an inert carrier comprising:
    - i) at least one metallocene compound of formula (I):



wherein:

M is a transition metal selected from those belonging to group 3, 4, 5, 6 or to a lanthanide or actinide group in the Periodic Table of the Elements;

p is an integer from 0 to 3, wherein p is equal to a formal oxidation state of M minus 2;

X, same or different, is hydrogen, a halogen, or R, OR, OSO<sub>2</sub>CF<sub>3</sub>, OCOR, SR, NR<sub>2</sub> or PR<sub>2</sub>, wherein R is a linear or branched, saturated or unsaturated  $C_1$ - $C_{20}$  alkyl,  $C_3$ - $C_{20}$  cycloalkyl,  $C_6$ - $C_{20}$  aryl,  $C_7$ - $C_{20}$  alkylaryl or  $C_7$ - $C_{20}$  arylalkyl radical, optionally

containing heteroatoms belonging to groups 13-17 of the Periodic Table of the Elements; or two X can optionally form a substituted or unsubstituted butadienyl radical or OR'O wherein R' is a divalent radical selected from  $C_1$ - $C_{20}$  alkylidene,  $C_6$ - $C_{40}$  arylidene,  $C_7$ - $C_{40}$  alkylarylidene and  $C_7$ - $C_{40}$  arylalkylidene radicals;

L is a divalent bridging group selected from  $C_1$ - $C_{20}$  alkylidene,  $C_3$ - $C_{20}$  cycloalkylidene,  $C_6$ - $C_{20}$  arylidene,  $C_7$ - $C_{20}$  alkylarylidene, or  $C_7$ - $C_{20}$  arylalkylidene radicals optionally containing heteroatoms belonging to groups 13-17 of the Periodic Table of the Elements, and silylidene radical containing up to 5 silicon atoms;

 $R^1$  and  $R^2$ , equal to or different from each other, are linear or branched, saturated or unsaturated  $C_1$ - $C_{20}$ -alkyl radicals, optionally containing one or more heteroatoms belonging to groups 13-17 of the Periodic Table of the Elements;

T, equal to or different from each other, is a moiety of formula (IIa) or (IIb):

$$R^{10}$$
 $R^{9}$ 
 $R^{8}$ 
 $R^{7}$ 
 $R^{6}$ 
 $R^{5}$ 
 $R^{4}$ 
 $R^{6}$ 
 $R^{5'}$ 
 $R^{4'}$ 
(IIa)
(IIb)

wherein the atom marked with symbol \* bonds the atom marked with the same symbol in the metallocene compound of formula (I);

 $R^3$ ,  $R^4$ ,  $R^5$ ,  $R^6$  and  $R^7$ , equal to or different from each other, are hydrogen or linear or branched, saturated or unsaturated  $C_1-C_{40}-alkyl$ ,  $C_3$ - $C_{40}$ -cycloalkyl,  $C_6$ - $C_{40}$ -aryl,  $C_7$ - $C_{40}$ -alkylaryl, or C<sub>7</sub>-C<sub>40</sub>-arylalkyl radicals, optionally containing one or more heteroatoms belonging to groups 13-17 of the Periodic Table of the Elements; or two or more  $R^3$ ,  $R^4$ ,  $R^5$ ,  $R^6$  and  $R^7$  can join to form a 4-7 membered saturated or unsaturated ring, said ring can bear at least one C<sub>1</sub>-C<sub>20</sub> alkyl substituent; with the proviso that at least one substituent selected from the group consisting of R3, R4, R5, R<sup>6</sup> and R<sup>7</sup> is a linear or branched, saturated or unsaturated  $C_1-C_{40}$ -alkyl,  $C_3-C_{40}$ -cycloalkyl,  $C_6-C_{40}-aryl$ ,  $C_7-C_{40}-alkylaryl$ , or  $C_7-C_{40}-arylalkyl$ radical optionally containing one heteroatoms belonging to groups 13-17 of the Periodic Table of the Elements;

 $R^8$ ,  $R^9$  and  $R^{10}$ , equal to or different from each other, are hydrogen or linear or branched, saturated or unsaturated  $C_1$ - $C_{20}$ -alkyl,  $C_3$ - $C_{20}$ -cycloalkyl,  $C_6$ - $C_{20}$ -aryl,  $C_7$ - $C_{20}$ -alkylaryl, or  $C_7$ - $C_{20}$ -arylalkyl radicals, optionally containing one or more heteroatoms belonging to groups 13-17 of the Periodic Table of the Elements; or two or more  $R^8$ ,  $R^9$  and  $R^{10}$  can join to form a 4-7 membered saturated or unsaturated ring, said ring can bear at least one  $C_1$ - $C_{10}$  alkyl substituent;

 $R^{11}$  is hydrogen or a linear or branched, saturated or unsaturated  $C_1$ - $C_{20}$ -alkyl,  $C_3$ - $C_{20}$ -cycloalkyl,  $C_6$ - $C_{20}$ -aryl,  $C_7$ - $C_{20}$ -alkylaryl, or  $C_7$ - $C_{20}$ -arylalkyl radicals, optionally containing one or more heteroatoms belonging to groups 13-17 of the Periodic Table of the Elements;

 $R^{3'}$ ,  $R^{4'}$ ,  $R^{5'}$ ,  $R^{6'}$  and  $R^{7'}$  equal to or different from each other, are hydrogen or linear or branched, saturated or unsaturated  $C_1$ - $C_{40}$ -alkyl,  $C_3$ - $C_{40}$ -cycloalkyl,  $C_6$ - $C_{40}$ -aryl,  $C_7$ - $C_{40}$ -alkylaryl, or  $C_7$ - $C_{40}$ -arylalkyl radicals, optionally containing one or more heteroatoms belonging to groups 13-17 of the Periodic Table of the Elements; or two or more  $R^{3'}$   $R^{4'}$   $R^{5'}$   $R^{6'}$  and  $R^{7'}$  can join to form a 4-7 membered saturated or unsaturated ring, said ring can bear at least one  $C_1$ - $C_{10}$  alkyl substituent;

- ii) an alumoxane or a compound capable of forming
   an alkyl metallocene cation;
- contacting under polymerization conditions in a gas phase, ethylene with one or more alpha olefins of formula  $CH_2=CHT^1$ , wherein  $T^1$  is a  $C_2-C_{20}$  alkyl radical, and optionally with a non-conjugated diene to produce an ethylene resin, the ethylene resin is produced in presence of the propylene resin,

wherein the amount of the propylene resin is higher than 4% and lower than 20% by weight, and the amount of the ethylene resin is higher than 80% by weight and lower than 96% by weight.

24. (New) The process according to claim 23, wherein the catalyst system further comprises iii) an organo aluminum compound.

- 25. (New) The process according to claim 24, wherein the process of polymerizing a propylene resin is carried out in presence of an additional organo aluminum compound.
- 26. (New) The process according to claim 23, wherein M is titanium, zirconium or hafnium; p is 2; X is hydrogen, a halogen, or R, wherein R is defined as in claim 23; L is selected from the group consisting of is  $Si(CH_3)_2$ ,  $SiPh_2$ , SiPhMe,  $SiMe(SiMe_3)$ ,  $CH_2$ ,  $(CH_2)_2$ ,  $(CH_2)_3$  and  $C(CH_3)_2$ ; and  $R^1$  and  $R^2$  are methyl or ethyl radicals.
- 27. (New) The process according to claim 23, wherein at least one substituent selected from the group consisting of  $R^{3'}$ ,  $R^{4'}$ ,  $R^{5'}$ ,  $R^{6'}$  and  $R^{7'}$  is a linear or branched, saturated or unsaturated  $C_1$ - $C_{40}$ -alkyl,  $C_3$ - $C_{40}$ -cycloalkyl,  $C_6$ - $C_{40}$ -aryl,  $C_7$ - $C_{40}$ -alkylaryl, or  $C_7$ - $C_{40}$ -arylalkyl radical, optionally containing one or more heteroatoms belonging to groups 13-17 of the Periodic Table of the Elements.
- 28. (New) The process according to claim 23, wherein  $R^5$  and  $R^{5'}$ , equal to or different from each other, are linear or branched, saturated or unsaturated  $C_1$ - $C_{40}$ -alkyl,  $C_3$ - $C_{40}$ -cycloalkyl,  $C_6$ - $C_{40}$ -aryl,  $C_7$ - $C_{40}$ -alkylaryl, or  $C_7$ - $C_{40}$ -arylalkyl radicals, optionally containing one or more heteroatoms belonging to groups 13-17 of the Periodic Table of the Elements.
- 29. (New) The process according to claim 28, wherein  $R^5$  and  $R^{5'}$ , equal to or different from each other, are branched  $C_1$ - $C_{40}$ -alkyl radicals.

30. (New) The process according to claim 29, wherein  $R^5$  and  $R^{5^\prime}$  have formula (III):

$$R^{12} \xrightarrow{R^{12}} R^{12}$$
(III)

wherein  $R^{12}$ , equal to or different from each other, is a  $C_{1-}$   $C_{10}$  alkyl radical.

- 31. (New) The process according to claim 23, wherein  $R^3$ ,  $R^4$ ,  $R^6$ ,  $R^7$ ,  $R^{3'}$ ,  $R^{4'}$ ,  $R^{6'}$  and  $R^{7'}$  are hydrogen, and  $R^{11}$  is a linear or branched, saturated  $C_1$ - $C_{20}$ -alkyl.
- 32. (New) The process according to claim 23, wherein T have formula (IIa) and  $R^9$  is a  $C_1$ - $C_{20}$  alkyl radical.
- 33. (New) The process according to claim 23, wherein T have formula (IIb).
- 34. (New) The process according to claim 23, wherein T have formula (IIa) and  $\mathbb{R}^9$  is hydrogen.
- 35. (New) The process according to claim 23, wherein T are different and have formulas (IIb) and (IIa).
- 36. (New) The process according to claim 23, wherein T have formula (IIb) and  $R^{11}$  is a linear or branched, saturated  $C_1-C_{20}$ -alkyl radical.
- 37. (New) The process according to claim 23, wherein the inert carrier is a porous organic polymer.

- 38. (New) The process according to claim 23, wherein the process of polymerizing a propylene resin further comprises a prepolymerization step.
- 39. (New) The process according to claim 38, wherein the catalyst system is prepolymerized.
- 40. (New) The process according to claim 23, wherein the process is carried out in presence of hydrogen.
- 41. (New) The process according to claim 23, wherein the propylene resin produced comprises from 10% to 18% by weight of a propylene homopolymer or propylene copolymer containing up to 20% by mol of ethylene or one or more alpha olefins of formula  $CH_2=CHT^1$ .
- 42. (New) The process according to claim 23, wherein the ethylene resin produced comprises from 82% to 90% by weight of an ethylene copolymer having from 3% by mol to 60% by mol of derived units of comonomers of formula  $CH_2=CHT^1$  and optionally up to 20% by mol of a non conjugated diene.
- 43. (New) The process according to claim 23, wherein the propylene resin is a propylene homopolymer.
- 44. (New) The process according to claim 23, wherein the ethylene resin is an ethylene 1-butene copolymer having a 1-butene content ranging from 5% to 45% by mol.